

Receipt date: 08/05/2008

Form PTO-1449 (modified)		Atty. Docket No. 266923-000007USPT	Serial No. 10/849,571
List of References for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b>		Applicant Weidong Zhu et al.	
Page 1 of 10		Filing Date: May 20, 2004	Group: 2863

### U.S. Patent Documents

Exa m. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date
	A1	5,553,300 5 , 533 , 300	3/29/1996	Gibson et al.	73	579	

### U.S. Published Documents

Exa m. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date
	B1	US 2003/0013541 A1	1/16/2003	Weiss et al.	473	316	
	B2	US 2005/0072234 A1	4/7/2005	Zhu et al.	73	579	

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exa m. Init.	Ref. Des.	Citation
	D1	Ramallo, J.C., et al. "Smart' Isolation for Seismic Control." <u>Fourteenth Engineering Mechanics Conference</u> (2000):1-6.
	D2	Rizos, P.F., et al. "Identification of Crack Location and Magnitude in a Cantilever Beam From the Vibration Modes." <u>Journal of Sound and Vibration</u> 138(3) (1990): 381-388.
	D3	Qian, G.-L., et al. "The Dynamic Behaviour and Crack Detection of a Beam with a Crack." <u>Journal of Sound and Vibration</u> 138(2) (1990): 233-243.
	D4	Debao, Li., et al. "On the Application of Modal Analysis to the Damage Detection." <u>ISTM-International Symposium</u> 2 (2001): 981-986.
	D5	Sampaio, R.P.C., et al. "Damage Detection Using the Frequency-Response-Function Curvature Method." <u>Journal of Sound and Vibration</u> 226(5) (1999): 1029-1042
	D6	Kim, B.-H., et al. "Local Damage Detection Using Incomplete Modal Data." <u>Proceedings of IMAC-XX</u> 4753 (2002): 435-441.
	D7	Morassi, Antonio., et al. "Identification of Two Cracks in a Simply Supported Beam From Minimal Frequency Measurements." <u>Journal of Vibration and Control</u> 7 (2001): 729-739.
	D8	Stubbs, N. "Global Non-Destructive Damage Evaluation in Solids." <u>The International Journal of Analytical and Experimental Modal Analysis</u> 5 (April 1990): 67-79.
	D9	Dilena, M., et al. "Identification of Crack Location in Vibrating Beams From Changes in Node Positions." <u>Journal of Sound and Vibration</u> 255(5) (2002): 915-930.
	D10	Davini, C., et al. "Modal Analysis of Notched Bars: Tests and Comments on the Sensitivity of an Identification Technique." <u>Journal of Sound and Vibration</u> 179 (1995): 513-527.

EXAMINER: /Michael Nghiem/ DATE CONSIDERED: 08/20/2008

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

ALL REFERENCES CONSIDERED EXCEPT WHERE TONED THROUGH. /MN/  
11102454.1

Form PTO-1449 (modified)	Atty. Docket No. 266923-000007USPT	Serial No. 10/849,571
List of References for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b>	Applicant Weidong Zhu et al.	
Page 2 of 10	Filing Date: May 20, 2004	Group: 2863

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exa m. Init.	Ref. Des.	Citation
	D11	Brasiliano, Andrea., et al. "Damage Identification in Continuous Beams and Frame Structures Using the Residual Error Method in the Movement Equation." <u>Nuclear Engineering and Design</u> 227 (2004): 1-17.
	D12	Chang, Chih-Chieh., et al. "Vibration Damage Detection of a Timoshenko Beam by Spatial Wavelet Based Approach." <u>Applied Acoustics</u> 64 (2003): 1217-1240.
	D13	Yam, L.H., et al. "Vibration-Based Non Destructive Structural Damage Detection." <u>Key Engineering Materials</u> 270-273 (2004): 1446-1453.
	D14	Zang, C., et al. "Structural Health Monitoring and Damage Assessment Using Measured FRFs From Multiple Sensors, Part I: The Indicator of Correlation Criteria." <u>Key Engineering Materials</u> 245-246 (2003): 131-140.
	D15	Craig Jr., Roy R. "A Brief Tutorial on Substructure Analysis and Testing." <u>18<sup>th</sup> International Modal Analysis Conference</u> (2000):1-10.
	D16	Szymanski, Jeff D., et al. "Architectural Acoustics and Musical Acoustics: Recording Studio Acoustics." <u>145<sup>th</sup> Meeting: Acoustical Society of America</u> 113(4) (May 1, 2003): 2273-2321.
	D17	Pesterev, A.V., et al. "A New Method for Calculating Bending Moment and Shear Force in Moving Load Problems." <u>ASME</u> 68 (March 2001):252-259.
	D18	Li, W.L. "A New Method For Structural Model Updating and Joint Stiffness Identification." <u>Mechanical Systems and Signal Processing</u> 16(1) (2002): 155-167.
	D19	Lee, Ho-Hoon. "A New Trajectory Control of a Flexible-Link Robot Based on a Distributed-Parameter Dynamic Model." <u>International Journal of Control</u> 77 (April 15, 2004): 546-553.
	D20	Peeters, Bart., et al. "Automotive and Aerospace Applications of the PolyMAX Modal Parameter Estimation Method." <u>Proceedings of IMAC</u> 22 (2004):1-11.
	D21	Wetton, R.E., et al. "Comparison of Dynamic Mechanical Measurements in Bending, Tension and Torsion." <u>ANTEC</u> 89 (May 1989): 1160-1162.
	D22	Zhang, Lixin., et al. "Complex Modal Analysis of Non-Self-Adjoint Hybrid Serpentine Belt Drive Systems." <u>Journal of Vibration and Acoustics</u> 123 (April 2001): 150-156.
	D23	Mohammad, K.S., et al. "Direct Parameter Estimation for Linear and Non-Linear Structures." <u>152(3)</u> (1992): 471-499.
	D24	Grisso, Benjamin Luke. "Considerations of the Impedance Method, Wave Propagation, and Wireless Systems for Structural Health Monitoring." <u>Virginia Polytechnic Institute and State University; Thesis</u> (August 31, 2004): 1-108.
	D25	Craig Jr., Roy R. "Coupling of Substructures for Dynamic Analyses: An Overview." <u>American Institute of Aeronautics and Astronautics</u> : (2000)1-12.

EXAMINER:	/Michael Nghiem/	DATE CONSIDERED:	08/20/2008
EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			

ALL REFERENCES CONSIDERED EXCEPT WHERE TONED THROUGH. /MN/  
11102454.1

Form PTO-1449 (modified)	Atty. Docket No. 266923-000007USPT	Serial No. 10/849,571
List of References for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b>	Applicant Weidong Zhu et al.	
Page 3 of 10	Filing Date: May 20, 2004	Group: 2863

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exa m. Init.	Ref. Des.	Citation
	D26	Yuan, Shengfang. "Active Monitoring for On-Line Damage Detection in Composite Structures." <u>Journal of Vibration and Acoustics</u> 125 (April 2003): 178-186.
	D27	Vanlanduit, Steve., et al. "An Automatic Damage Detection Methodology for Structural Health Monitoring During Fatigue Tests." <u>Key Engineering Materials</u> 245-246 (2003) 27-34.
	D28	Farrar, Charles R., et al. "An Overview of Modal-Based Damage Identification Methods." <u>Engineering Analysis Group</u> : 1-30. (1997)
	D29	Ovanesova, A.V., et al. "Applications of Wavelet Transforms to Damage Detection in Frame Structures." <u>Engineering Structures</u> 26 (2004): 39-49.
	D30	Surace, Cecilia. "Crack Detection of a Beam Using the Wavelet Transform," Proc. 12 <sup>th</sup> Int'l Modal Analysis Conf. (IMAC), Honolulu, HI, pgs 1141-1147 (1994).
	D31	Ndambi, J.-M., et al. "Damage Assessment in Reinforced Concrete Beams Using Eigenfrequencies and Mode Shape Derivatives." <u>Engineering Structures</u> 24 (2002) 501-515.
	D32	Chen, X.-Q., et al. "Damage Detection Based on the Harmonic Response." <u>Institute of Structural Mechanics</u> : 1-11.
	D33	Davis, Ivan C., et al. "Damage Detection in Aluminum Cylinders Using Modal Analysis." <u>Virginia Polytechnic and State University; Thesis</u> (January 31, 2002): 1-29.
	D34	Vestroni, Fabrizio., et al. "Damage Detection in Beam Structures Based on Frequency Measurements." <u>Journal of Engineering Mechanics</u> (July 2000): 761-768.
	D35	Kessler, Seth S., et al. "Damage Detection in Composite Materials Using Frequency Response Methods." <u>Composites: Part B: Engineering</u> 33 (2002): 87-95.
	D36	Ghoshal, A., et al. "Damage Detection Testing on a Helicopter Flexbeam." <u>Journal of Intelligent Material Systems and Structures</u> 12 (May 2001): 315-330.
	D37	Söfftker, D., et al. "Detection of Cracks in Turborotors – A New Observer Based Method." <u>ASME Journal of Dynamic Systems, Measurements, and Control</u> 3 (September 1993): 518-524.
	D38	Salawu, O.S. "Detection of Structural Damage Through Changes in Frequency: A Review." <u>Engineering Structures</u> 19 (1997): 718-723.
	D39	Ruotolo, Romualdo., et al. "Diagnosis of Damage in a Steel Frame." <u>Proc. SPIE: Proceedings of the 16<sup>th</sup> International Modal Analysis Conference</u> 3243(1998):609-615.
	D40	Özgüven, H.N., et al. "Complex Modes Arising From Linear Identification of Non-Linear Systems." <u>The International Journal of Analytical and Experimental Modal Analysis</u> 8 (1993):151-164.
	D41	Samman, M.M., et al. "Employing Pattern Recognition for Detecting Cracks in a Bridge Model." <u>The International Journal of Analytical and Experimental Modal Analysis</u> 6(1) (January 1991): 35-44.
	D42	Szász, György., et al. "Time Periodic Control of a Bladed Disk Assembly Using Shaft Based Actuation." <u>Journal of Vibration and Acoustics</u> 123 (July 2001): 395-411.

EXAMINER:	/Michael Nghiem/	DATE CONSIDERED:	08/20/2008
-----------	------------------	------------------	------------

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

ALL REFERENCES CONSIDERED EXCEPT WHERE TONED THROUGH. /MN/  
11102454.1

Form PTO-1449 (modified)	Atty. Docket No. 266923-000007USPT	Serial No. 10/849,571
List of References for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b>  Page 4 of 10	Applicant Weidong Zhu et al.	
	Filing Date: May 20, 2004	Group: 2863

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exa m. Init.	Ref. Des.	Citation
	D43	Xu, G.Y., et al. "Experimental and Numerical Investigation of Structural Damage Detection Using Changes in Natural Frequencies." <u>University of Maryland, Baltimore County</u> : 1-65.
	D44	Krauss, Ryan W. "Experimental Identification of Nonlinear Systems." (August 8, 1998):1-53.
	D45	Busev, H.R., et al. "Experimental Modal Analysis of Non-Linear Systems: A Feasibility Study." <u>Journal of Sound and Vibration</u> 130(3) (1986):415-427.
	D46	Dias Rodrigues, J.F., et al. "Experimental Modal Analysis of a Synthetic Composite Femur." <u>Experimental Mechanics</u> 44(1) (2004):29-32
	D47	Hamey, Cole S., et al. "Experimental Damage Identification of Carbon/Epoxy Composite Beams Using Curvature Mode Shapes." <u>Structural Health Monitoring</u> 3(4) (2004):333-353.
	D48	Yang, J.N., et al. "Hilbert-Huang Based Approach for Structural Damage Detection." <u>Journal of Engineering Mechanics</u> (January 2004):85-95.
	D49	Szymanski, Jeff D., et al. "Architectural Acoustics and Musical Acoustics: Recording Studio Acoustics." <u>145<sup>th</sup> Meeting: Acoustical Society of America</u> 113(4) (May 1, 2003):2273-2321.
	D50	Fraraccio, Giancarlo., et al. "Identification and Damage Detection in Structures Subjected to Base Excitation." <u>Dipartimento di Ingegneria Strutturale Geotecnica</u> :1-12.
	D51	Xu, G.Y., et al. "Theoretical and Experimental Investigation of Structural Damage Detection Using Changes in Natural Frequencies." <u>ASME</u> (2004):1-11.
	D52	Peairs, Daniel M., et al. "Improving Accessibility of the Impedance-Based Structural Health Monitoring Method." <u>Journal of Intelligent Material Systems and Structures</u> 15 (February 2004):129-139.
	D53	S. Lall, Stanford. "Least Squares" (2004): 1-31.
	D54	Amin, M.S., et al. "Experimental Verification of a Vibration Based Damage Detection Technique." <u>Carleton University</u> (2002):428-434.
	D55	Lund, Erik. "Finite Element Based Design Sensitivity Analysis and Optimization." <u>Aalborg University</u> 23 (1994):1-234.
	D56	Friswell, Michael I., et al. "Finite-Element Model Updating Using Experimental Test Data: Parametrization and Regularization." <u>The Royal Society</u> 359 (2001):169-186.
	D57	Huang, Norden E. "HHT Basics and Applications: For Speech, Machine Health Monitoring, and Bio-Medical Data Analysis." (March 24, 2003):1-28.
	D58	Kizhner, Semion., et al. "Hilbert-Huang Transform Data Processing System (HHT-DPS)." <u>NASA Goddard Space Flight Center: Hilbert-Huang Transform Advanced Technology Briefing</u> (March 24, 2003):1-25.
	D59	Gladwell, Graham M.L., et al. "Inverse Problems in Vibration" <u>Applied Mechanics Review</u> 39(7) (July 1986):1013-1018.

EXAMINER:	/Michael Nghiem/	DATE CONSIDERED:	08/20/2008
EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			

ALL REFERENCES CONSIDERED EXCEPT WHERE TONED THROUGH. /MN/  
11102454.1

Form PTO-1449 (modified)	Atty. Docket No. 266923-000007USPT	Serial No. 10/849,571
List of References for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b>	Applicant Weidong Zhu et al.	
Page 5 of 10	Filing Date: May 20, 2004	Group: 2863

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exa m. Init.	Ref. Des.	Citation
	D60	Banks, H.T. "Inverse Problems Tutorial: Inverse Problem Methodology in Complex Stochastic Systems." <u>Statistical and Applied Mathematical Sciences Institute</u> (September 2002):1-63.
	D61	Dippery, Kyle D., et al. "Investigating Model Identification Procedures for Systems With Modal Interactions." <u>Structural Dynamic Modeling: Test Analysis and Correlation, Papers presented at the 2nd International conference on Structural Dynamics Modeling</u> , Cumbria, United Kingdom (July 1996):379-390.
	D62	"LMS PolyMAX: A Revolution in Modal Parameter Estimation." <u>LMS International Brochure</u> (2003): 1-10.
	D63	Kim, B-H., et al. "Local Damage Detection Using Incomplete Modal Data." <u>Proceedings of IMAC-XX: A Conference on Structural Dynamics</u> 4753 (February 2002):435-441.
	D64	Tomasini, Enrico Primo. "Vibration Measurements by Laser Techniques: Advances and Applications." <u>The International Society for Optical Engineering</u> 2358 (October 1994):37-47.
	D65	Wu, W.-T., et al. "Modal Analysis of the Steady State Response of a Driven Periodic Linear System." <u>Journal of Sound and Vibration</u> 183(2) (1995):297-308.
	D66	Drexel, M.V. "Modal Overlap and Dissipation Effects of a Cantilever Beam With Multiple Attached Oscillators." <u>Journal of Vibration and Acoustics</u> 123 (April 2001):181-187.
	D67	Drexel, Michael V., et al. "Mode Isolation: A New Algorithm for Modal Parameter Identification." <u>Acoustical Society of America</u> 110(3) (September 2001):1371-1378.
	D68	Avitabile, Peter. "Model Updating: Endless Possibilities." <u>Modal Analysis and Controls Laboratory: University of Massachusetts Lowell</u> (February 2000):1-9.
	D69	Mares, C., et al. "Model Updating Using Robust Estimation." <u>Mechanical Systems and Signal Processing</u> 16(1) (2002):169-183.
	D70	Cha, P.D., et al. "Model Updating by Adding Known Masses." <u>International Journal for Numerical Methods in Engineering</u> 50 (2001):2457-2571.
	D71	Coffeen, Robert C., "Architectural Acoustics and Engineering Acoustics: Multi-Channel Sound Reinforcement Systems." <u>145<sup>th</sup> Meeting: Acoustical Society of America</u> 113(4) (April 2003):2201-2232.
	D72	Ginsberg, Jerry H., et al. "Modern Theoretical and Experimental Modal Analysis." <u>G.W. Woodruff School of Mechanical Engineering: Georgia Institute of Technology</u> . (November 17, 2003):1-65.
	D73	Avitabile, Peter. "Experimental Modal Analysis (A Simple Non-Mathematical Presentation)." <u>Model Analysis and Controls Laboratory: University of Massachusetts Lowell</u> (2001):1-15.
	D74	"Nondestructive Testing." <u>Interim Guidelines: Evaluation, Repair, Modification and Design of Steel Moment Frames Chapter 11</u> (1997):1-6.

EXAMINER: /Michael Nghiem/

DATE CONSIDERED: 08/20/2008

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

ALL REFERENCES CONSIDERED EXCEPT WHERE TONED THROUGH. /MN/  
11102454.1

Form PTO-1449 (modified)	Atty. Docket No. 266923-000007USPT	Serial No. 10/849,571
List of References for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b>	Applicant Weidong Zhu et al.	
Page 6 of 10	Filing Date: May 20, 2004	Group: 2863

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exa m. Init.	Ref. Des.	Citation
	D75	Siller, Hugo Ramon Elizalde. "Non-Linear Modal Analysis Methods for Engineering Structures." <u>Department of Mechanical Engineering: Imperial College London/University of London</u> (August 2004):1-239.
	D76	"Nonstationary and Nonlinear Time Analysis." (July 21, 2004):1-64.
	D77	Žak, A., et al. "Numerical and Experimental Investigation of Free Vibration of Multilayer Delaminated Composite Beams and Plates." <u>Computational Mechanics</u> 26 (2000):309-315.
	D78	DeMichele, Dominick J., et al. "Proceedings of the 11 <sup>th</sup> International Modal Analysis Conference." <u>Society for Experimental Mechanics 1923</u> (February 1993):286-292.
	D79	Leissa, Arthur W. "On a Curve Veering Aberration." <u>Journal of Applied Mathematics and Physics</u> 25 (1994):99-111.
	D80	Wong, C.N., et al. "On an Iterative General-Order Perturbation Method for Multiple Structural Damage Detection." <u>Journal of Sound and Vibration</u> 273 (2004):363-386.
	D81	Varga, A. "On Computing Generalized Inverse Systems Using Matrix Pencil Methods." <u>International Journal of Applied Mathematics and Computer Science</u> 11(2001):1055-1068.
	D82	Dohner, Jeffrey L., "White Paper: On the Development of Methodologies for Constructing Predictive Models of Structures with Joints and Interfaces." <u>Sandia National Laboratories: The Structural Dynamics Department</u> (2000):1-14.
	D83	Lin, R.M., et al. "On the Location of Structural Nonlinearity From Modal Testing – A Feasibility Study." <u>IMAC</u> 1 (1990):358-364.
	D84	Campbell, Richard H. "Architectural Acoustics: Integration of Synthesis Techniques and "Acoustical" Music." <u>Joint 140<sup>th</sup> Meeting ASA/NOISE-CON</u> 108(5) (November 2000):2537-2579.
	D85	Kashangaki, Thomas A-L. "On-Orbit Damage Detection and Health Monitoring of Large Space Trusses – Status and Critical Issues." <u>Structures, Structural Dynamics, and Materials Conference</u> (1991):2947-2958.
	D86	Electron, J. Diff. Eqns. "Chapter VII: Optimization and Approximation Topics." <u>Monograph</u> 01(1994):169-205.
	D87	"Chapter 4:Detailed Inspection."(December 1, 2001):1-9.
	D88	"Chapter 6: Analysis Method for Defect Detection." 86-156
	D89	"Overview of HHT Processing and the HHT-DPS." 1-6
	D90	Yak, M., et al. "Parameter Estimation for Hysteretic Systems." <u>Journal of Sound and Vibration</u> 117(3) (1987):161-172.
	D91	Friswell, M.I., et al. "Parameter Subset Selection in Damage Location." <u>Inverse Problems in Engineering</u> 5(3) (1997):1.

EXAMINER: /Michael Nghiem/

DATE CONSIDERED: 08/20/2008

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

ALL REFERENCES CONSIDERED EXCEPT WHERE TONED THROUGH. /MN/  
11102454.1

Form PTO-1449 (modified)	Atty. Docket No. 266923-000007USPT	Serial No. 10/849,571
List of References for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b>  Page 7 of 10	Applicant Weidong Zhu et al.	
	Filing Date: May 20, 2004	Group: 2863

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exa m. Init.	Ref. Des.	Citation
	D92	Behi, Fariborz., et al. "Parametric Identification for Industrial Manipulators Using Experimental Modal Analysis." <u>IEEE Transactions on Robotics and Automation</u> 7(5) (October 1991):642-652.
	D93	Sugiura, Toshihiko. "Parametrically Excited Horizontal and Rolling Motion of a Levitated Body Above a High-Tc Superconductor." <u>IEEE Transactions on Applied Superconductivity</u> 13(2) (June 2003):2247-2250.
	D94	Chung, Chiou-Fong. "The Dynamics Analysis of Nonlinear Vibration System and Modeling of a Rotating System." (July 2002):1-84.
	D95	Ahmadian, H., et al. "Physical Realization of Generic-Element Parameters in Model Updating." <u>Journal of Vibration and Acoustics</u> 124 (October 2002):628-633.
	D96	<del>"Polytec Scanning Vibrometer." Polytec: Theory Manual 1-1 - 13-10</del>
	D97	Xu, Guangyao., et al. "Vibration-Based Structural Damage Detection: Theory and Experiments." <u>Dynamic Systems and Vibrations Laboratory: University of Maryland Baltimore County</u> (2004):1.
	D98	Avitabile, Peter., et al. "Reallocation of System Mass and Stiffness for Achieving Target Specifications." <u>International Journal of Vehicle Noise and Vibration</u> 1(1/2) (2004):97-121.
	D99	Drexel, Michael V. "State Space Implementation of the Algorithm of Mode Isolation." <u>Journal of Vibration and Acoustics</u> 125 (April 2003):205-213.
	D100	Napolitano, K.L., et al. "Statistical Damage Detection of Highly Damped Structures Using Frequency Response Functions and Residual Force Vectors." <u>Proceedings of the SPIE Symposium on Smart Structures</u> (1996):1-26.
	D101	Kashangaki, Thomas A-L. "On-Orbit Damage Detection and Health Monitoring of Large Space Trusses – Status and Critical Issues." <u>Structures, Structural Dynamics, and Materials Conference</u> (1991):2946-2958.
	D102	Peeters, Bart., et al. "Stochastic System Identification for Operational Modal Analysis: A Review." <u>Journal of Dynamic Systems, Measurement, and Control</u> 123 (December 2001):659-667.
	D103	Xu, Y.L., et al. "Structural Damage Detection Using Empirical Mode Decomposition: Experimental Investigation." <u>Journal of Engineering Mechanics</u> (November 2004):1279-1288.
	D104	Farrar, Charles R., et al. "Structural Health Monitoring Activities at National Laboratories." (1997):1-12.
	D105	"Advances in Mechanics." <u>Tsinghua Tongfang Optical Disc Co., Ltd.</u> 34(2) (May 25, 2004):215-223.
	D106	Ren, Wei-Xin., et al. "Roebling Suspension Bridge. I: Finite-Element Model and Free Vibration Response." <u>Journal of Bridge Engineering</u> (March/April 2004):110-118.
	D107	Mottershead, J.E., et al. "Selection and Updating of Parameters for an Aluminium Space-Frame Model." <u>Mechanical Systems and Signal Processing</u> 14(6) (2000):923-944.

EXAMINER: /Michael Nghiem/

DATE CONSIDERED: 08/20/2008

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

ALL REFERENCES CONSIDERED EXCEPT WHERE TONED THROUGH. /MN/  
11102454.1

Form PTO-1449 (modified)	Atty. Docket No. 266923-000007USPT	Serial No. 10/849,571
List of References for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b>	Applicant Weidong Zhu et al.	
Page 8 of 10	Filing Date: May 20, 2004	Group: 2863

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exa m. Init.	Ref. Des.	Citation
	D108	Breccolotti, M., et al. "Sensitivity of Dynamic Methods for Damage Detection in Structural Concrete Bridges." <u>Shock and Vibration</u> 11 (2004):383-394.
	D109	Zhao, Jun., et al. "Sensitivity Study for Vibrational Parameters Used in Damage Detection." <u>Journal of Structural Engineering</u> (April 1999):410-416.
	D110	Joseph, Daniel D., et al. "Short-Wave Instabilities and Ill-Posed Initial-Value Problems." <u>Theoretical and Computational Fluid Dynamics</u> 1 (1990):191-227.
	D111	<del>"Singularity and Ill-Conditioning." <u>Linear Systems</u> 1-11.</del>
	D112	Hou, Z. "Wavelet-Based Approach for Structural Damage Detection." <u>Journal of Engineering Mechanics</u> (July 2000):677-683.
	D113	Ginsberg, Jerry H. "Wave-Number-Based Assessment of the Doubly Asymptotic Approximation. I. Frequency Domain Wet Surface Impedance." <u>Acoustical Society of America</u> 107(4) (April 2000):1898-1905.
	D114	Ginsberg, Jerry H. "Wave-Number-Based Assessment of the Doubly Asymptotic Approximation. II. Frequency and Time Domain Response." <u>Acoustical Society of America</u> 107(4) (April 2000):1906-1914.
	D115	Terumichi, Yoshiaki. "Wear Development on Elastic Rail With Repeated Passage of Disks." :1-15. (not dated)
	D116	Worden, K., et al. "The High-Frequency Behavior of Frequency Response Functions and it's Effect on Their Hilbert Transforms." <u>IMAC</u> 1 (1990):121-130.
	D117	Shabana, Ahmed A., "Three Dimensional Absolute Nodal Coordinate Formulation for Beam Elements: Theory." <u>Journal of Mechanical Design</u> 123 (December 2001):606-613.
	D118	Zhu, X.Q., et al. "Time Domain Identification of Moving Loads on Bridge Deck." <u>Journal of Vibration and Acoustics</u> 125 (April 2003):187-198.
	D119	Simon, M., et al. "Use of the Hilbert Transform in Modal Analysis of Linear and Non-Linear Structures." <u>Journal of Sound and Vibration</u> 96(4) (1984):421-436.
	D120	Bilello, C., et al. "Vibration of Damaged Beams Under a Moving Mass: Theory and Experimental Validation." <u>Journal of Sound and Vibration</u> 274 (2004):567-582.
	D121	Saadat, Soheil., et al. "Structural Health Monitoring and Damage Detection Using an Intelligent Parameter Varying (IPV) Technique." <u>International Journal of Non-Linear Mechanics</u> 39 (2004):1687-1697.
	D122	Farrar, Charles R., et al. "Structural Health Monitoring at Los Alamos National Laboratory." <u>Institute of Electrical Engineers Colloquium on Condition Monitoring: Machinery, External Structures and Health</u> (1999): 2/1-2/4.

EXAMINER:

/Michael Nghiem/

DATE CONSIDERED:

08/20/2008

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

ALL REFERENCES CONSIDERED EXCEPT WHERE TONED THROUGH. /MN/  
11102454.1

Form PTO-1449 (modified)	Atty. Docket No. 266923-000007USPT	Serial No. 10/849,571
List of References for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b>  Page 9 of 10	Applicant Weidong Zhu et al.	
	Filing Date: May 20, 2004	Group: 2863

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exa m. Init.	Ref. Des.	Citation
	D123	Schulz, Mark. "Structural Health Monitoring of Aerospace Vehicles." <u>North Carolina Agricultural and Technical State University</u> :1-2 (1999).
	D124	Roitman, N., et al. "Structural Model Adjustment Using Iterative Methods." <u>Materials and Structures</u> 36 (November 2003):570-577.
	D125	Farrar, Charles R., et al. "Structural Health Monitoring Using Statistical Pattern Recognition." <u>Los Alamos Dynamics: Structural Dynamics and Mechanical Vibration Consultants</u> :1-15.
	D126	Roitman, N., et al. "Structural Model Adjustment Using Iterative Methods." <u>Materials and Structures</u> 36 (November 2003):570-577.
	D127	Ying, Ren. "The Analysis and Identification of Friction Joint Parameters in the Dynamic Response of Structures." <u>Department of Mechanical Engineering: Imperial College Thesis</u> (March 1992):1-267.
	D128	Huang, Norden E., et al. "The Empirical Mode Decomposition and the Hilbert Spectrum for Nonlinear and Non-Stationary Time Series Analysis." <u>The Royal Society</u> (1998):903-995.
	D129	Capecchi, Danilo., et al. "Monitoring of Structural Systems by Using Frequency Data." <u>Earthquake Engineering and Structural Dynamics</u> 28 (1999):447-461.
	D130	Shifrin, E.I., et al. "Natural Frequencies of a Beam With an Arbitrary Number of Cracks." <u>Journal of Sound and Vibration</u> 222(3) (1999):409-423.
	D131	Stubbs, N. "Global Non-Destructive Damage Evaluation in Solids." <u>The International Journal of Analytical and Experimental Modal Analysis</u> 5(2) (April 1990):67-79.
	D132	Davini, Cesare., et al. "A Damage Analysis of Steel Beams." <u>Meccanica</u> 28 (1993):27-37.
	D133	Salawu, O.S. "Detection of Structural Damage Through Changes in Frequency: A Review." <u>Engineering Structures</u> 19 (1997):718-723.
	D134	Rose, Joseph L., et al. "Recent Advances in Guided Wave NDE." <u>IEEE Ultrasonics Symposium</u> (1995):761-770.
	D135	Cawley, P., et al. "The Location of Defects in Structures From Measurements of Natural Frequencies." <u>Journal of Strain Analysis</u> 14(2) (1979):49-57.
	D136	Ruotolo, R., et al. "Damage Assessment of Multiple Cracked Beams: Numerical Results and Experimental Validation." <u>Journal of Sound and Vibration</u> 206(4) (1997):567-588.
	D137	Hu, Jialou., et al. "An Integrated Approach to Detection of Cracks Using Vibration Characteristics." <u>Journal of the Franklin Institute</u> 330(5) (1993):841-853.
	D138	Vestroni, Fabrizio., et al. "Damage Evaluation in Cracked Vibrating Beams using Experimental Frequencies and Finite Element Models." <u>Journal of Vibration and Control</u> 2 (1996):69-86.
	D139	Stubbs, N., et al. "A Global Non-Destructive Damage Assessment Methodology for Civil Engineering Structures." <u>International Journal of Systems Science</u> 31(11) (2000):1361-1373.

EXAMINER:	/Michael Nghiem/	DATE CONSIDERED:	08/20/2008
-----------	------------------	------------------	------------

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

ALL REFERENCES CONSIDERED EXCEPT WHERE TONED THROUGH. /MN/  
11102454.1

Form PTO-1449 (modified)	Atty. Docket No. 266923-000007USPT	Serial No. 10/849,571
List of References for Applicant's <b>INFORMATION DISCLOSURE STATEMENT</b>	Applicant Weidong Zhu et al.	
Page 10 of 10	Filing Date: May 20, 2004	Group: 2863

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exa m. Init.	Ref. Des.	Citation
	D140	Farrar, Charles R., et al. "Condition/Damage Monitoring Methodologies." <u>Engineering Science and Applications Division: Los Alamos National Laboratory</u> :1-9.
	D141	Doebling, Scott W., et al. "A Summary Review of Vibration-Based Damage Identification Methods." <u>The Shock and Vibration Digest</u> , Vol. 30, No. 2, pp. 91-105 (1998).
	D142	Doebling, Scott W., et al. "Damage Identification and Health Monitoring of Structural and Mechanical Systems From Changes in Their Vibration Characteristics: A Literature Review." <u>Los Alamos National Laboratory</u> (May 1996):1-127.
	D143	Thomas, Graham. "Overview of Nondestructive Evaluation Technologies." <u>SPIE</u> 2455 (1995):5-9.
	D144	Morassi, Antonino., et al. "Identification of Two Cracks in a Simply Supported Beam From Minimal Frequency Measurements." <u>Journal of Vibration and Control</u> 7 (2001):729-739.
	D145	Ostachowicz, W.M., et al. "Analysis of the Effect of Cracks on the Natural Frequencies of a Cantilever Beam." <u>Journal of Sound and Vibration</u> 150(2) (1991):191-201.
	D146	Stubbs, N., et al. "Global Damage Detection in Solids Experimental Verification." <u>The International Journal of Analytical and Experimental Modal Analysis</u> 5(2) (April 1990):81-97.
	D147	Wong, C.N., et al. "On an Iterative General-Order Perturbation Method for Multiple Structural Damage Detection." <u>Journal of Sound and Vibration</u> 273 (2004):363-386.
	D148	Rose, Joseph L., et al. "Ultrasonic Guided Wave NDE for Piping." <u>Materials Evaluation</u> (November 1996):1310-1313.
	D149	Proposal for Damage Detection Project: C1 – C15.
	D150	"Matlab" Power Point Slide Show:1-40
	D151	R.M., Lin., et al. "Sensitivity Based Method For Structural Dynamic Model Improvement." <u>Computers and Structures</u> 47(3) (1993):349-369.

EXAMINER:	/Michael Nghiem/	DATE CONSIDERED:	08/20/2008
EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			

ALL REFERENCES CONSIDERED EXCEPT WHERE TONED THROUGH. /MN/  
11102454.1